AP28N0A
AP30N0A
AP30N1A

# Air Conditioner
## user manual

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Ⓔ Ⓟe DB98-31713A(2)

SAMSUNG

# features of your new air conditioner

- **Strong Turbo/Long Function**

  Your new air conditioner supports Turbo function which makes you cool/warm fast for 30 minutes and Long function which makes the cool/warm air goes to much further place.

- **Look for Everywhere**

  The elegant and harmonious design gives priority to the esthetics of your space and complements any of your existing interior décor. With its soft color and latest design, the new air conditioner adds class to any room. Enjoy what your air conditioner offers both functionally and esthetically.

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For easy future reference write the model and serial number down. You can find your model number on the right side of the air conditioner.

Model #_____
Serial #_____

# safety information

To prevent electric shock, disconnect the power before servicing, cleaning, and installing the air conditioner.

## SAFETY INFORMATION

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

### Important safety symbols and precautions:

| | |
|---|---|
| WARNING | Hazards or unsafe practices that may result in **severe personal injury or death.** |
| CAUTION | Hazards or unsafe practices that may result in **minor personal injury or property damage.** |
| CAUTION | To reduce the risk of fire, explosion, electric shock, or personal injury when using your air conditioner, follow these basic safety precautions: |

| | |
|---|---|
| | Do NOT attempt. |
| | Do NOT disassemble. |
| | Do NOT touch. |
| | Follow directions carefully. |
| | Unplug the power plug from the wall socket. |
| | Make sure the machine is grounded to prevent electric shock. |
| | Call the contact center for help. |
| | Note. |

**These warning signs are here to prevent injury to you and others.**
**Please follow them carefully.**
**After reading this section, keep it in a safe place for future reference.**

## SEVERE WARNING SIGNS

**Do not place the air conditioner near hazardous substances or equipment that releases free flames to avoid fire, explosions or injuries.**
- Potential risk of fire hazard or explosion.

**Do not install the outdoor unit at an unstable place or elevated surface where there is potential risk of falling.**
- If the outdoor unit falls, it may cause personal injury or loss of property.

**Failure or damage may occur if any changes or modification that is not stated in the installation manual was performed. In this case, user will be responsible for the repair expenses.**

**Install the air conditioner away from direct exposure to sunlight, heating apparatus, and humid places.**
- Hang curtains on windows to boost cooling efficiency and to avoid the risk of electric shock.

**Do not cut the power plug and connect to a different power cable.**

**Do not yank the power cable and touch the power plug with hands.**
- Potential risk of fire or electric shock.

**Never use a damaged or dusted power plug, power cable, or loosened power receptacle.**
- Potential risk of fire or electric shock.

**Install an exclusive circuit breaker and short-circuit breaker for the air conditioner.**
- Potential risk of electric shock or fire.

**Do not insert anything such as fingers or branches into the air conditioner vents while the air conditioner is running.**
- Keep the children away from the air conditioner to prevent them from putting their finger on the air conditioner. Potential risk of personal injury.

**Ensure no water gets into the air conditioner.**
- Potential risk or electric shock.
- If the water gets into the air conditioner, stop and unplug the power source immediately.

**Turn off the air conditioner using the provided remote controller or control accessory (if provided). Do not unplug to turn off the unit (unless there is an immediate danger).**

**Do not run the air conditioner for an extended period of time in a room with the door closed or with babies, elderly or disabled people.**
- Open the door or windows to ventilate your room at least once an hour to prevent oxygen shortage.

**The air conditioner is composed of moving parts. Keep children away from the unit to avoid physical injury.**

**Make sure that children take precautions against access to the air conditioner and they do not play with the unit.**

**Do not clean the interior of air conditioner on your own.**

- You may damage the parts which can cause electric shock or fire.
- Consult contact center for cleaning the interior of the air conditioner.

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**Do not connect the air conditioner with heating apparatus or attempt to disassemble, remodel or repair it yourself.**

- Potential risk of malfunction, electric shock or fire. If repairs are needed, consult the contact center.

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**Consult the place of purchase or contact center to install, reinstall or disassemble the air conditioner.**

- Improper installation carries a risk of unit malfunction, water leakage, electric shock or fire.
- If installing in specialty areas, such as a factory complex or saline coastal area, consult the place of purchase or contact center for specific installation details.
- The units must be installed according to distances declared, in order to permit accessibility from each side, either to guarantee correct operation of maintenance or repairing products. The unit's parts must be reachable and removable completely under safety condition (for people or things).

**Consult a dealer regarding the appropriate measures to prevent the allowable concentration from being exceeded.**

- If the refrigerant leaks, and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.

**If the indoor unit gets wet, turn the power off immediately and call your nearest contact center.**

- Potential risk of fire or electric shock.

**Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.**

**Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.**

**Use a rated circuit breaker only.**

- Never use steel wires or copper wires as a circuit breaker. It may cause fire or unit malfunctions.

**Do not put undue stress or place heavy object on the power cable.**

**Do not bend the power cable excessively.**

- Potential risk of fire or electric shock.

**To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the protection tube.**

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**Disconnect the air conditioner from power supply before it is repaired or disassembled.**

**Clean the air conditioner after the inner fan stops operating.**

- Potential risk of injury or electric shock.

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## SEVERE WARNING SIGNS (CONT'D)

**Use a receptacle that has a ground terminal. The receptacle must be used exclusively for the air conditioner.**
- Improper electrical grounding may cause electric shock or fire.

**Be sure to ground the unit. Do not connect the ground wire to gas or water pipes, lighting rods, or telephone grounding lines.**
- If the unit is not properly grounded, electric shock may result.

**If you smell burning plastic, hear strange sounds, or see smoke coming from the unit, unplug the air conditioner immediately and call a contact center.**
- Potential risk of fire or electric shock.

## CAUTION SIGNS

**Do not block or place items in front of the air conditioner. Do not step, hang onto, or place heavy items on the air conditioner.**
- Potential risk of personal injury.

**If failure or damage occurs on the conditions of improper use not followed by the installation manual, there will be an extra labor charge for installing and construction.**
- Potential risk of malfunction, electric shock or fire if repairs or installations are attempted by a non-qualified service technician.

**Do not spray flammable gases such as insecticide near the air conditioner.**
- Potential risk of electric shock, fire or unit malfunction.

**Do not open the front panel during operation.**
- Potential risk of electric shock or unit malfunction.

**Cool air should not flow directly towards people, pets, and plants.**
- It is harmful to your health, pets, and plants.

**Do not drink drain water coming out of the air conditioner.**
- Potential risk of health hazard.

**Do not allow children to climb on the air conditioner.**

**Do not use the air conditioner as a cooling precision instrument for food, pets, plants, cosmetics or machinery.**

**Do not pull or give excessive shock to the air conditioner.**
- Potential risk of fire, or unit malfunction and there are risk of personal injury because unit may fall down.

**Do not spray water directly on the air conditioner or use benzene, thinner or alcohol to clean the surface of the unit.**
- Potential risk of electric shock or fire.
- Potential risk of damage to the air conditioner.

**Do not place any objects, especially containers with liquid.**

Do not touch the pipe connected to the air conditioner.

Install the indoor unit away from lighting apparatus using the ballast.
- If you use the wireless remote controller, reception error may occur due to the ballast of the lighting apparatus.

Install the outdoor unit where operating noise and vibration will not disturb your neighbor and in a well-ventilated area with no obstacle.
- Potential risk of malfunction.
- Operating noise may disturb your neighbor.

Make sure that there are no obstacles or covers that block the air conditioner.

Allow sufficient space for air circulation.
- Insufficient ventilation may result in poor performance.

If the power cable is damaged, the manufacturer or a qualified service technician must replace it.

If a power outage occurs while the air conditioner is working, turn off the power source immediately.

Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

Check for damage on delivery. If damaged, do not install the air conditioner and call the place of purchase immediately.

Keep indoor temperatures stable and not extremely cold, especially where there are children, elderly or disabled people.

The packaging material and used batteries of the remote controller (optional) must be disposed of in accordance with the national standards.

The refrigerant used in the air conditioner must be treated as chemical waste. Dispose the refrigerant following national standards.

Have a qualified service technician install the air conditioner and perform a trial operation.

Firmly connect the drain hose to the air conditioner for proper water drainage.

Check for damages on the outdoor unit installation pad at least once a year.
- Potential risk of personal injury or property loss.

When using a wireless remote controller, the distance should not be more than 7 meters from the air conditioner.

If the remote controller is not used for a long period of time, remove the batteries to prevent leakage of electrolyte.

When cleaning the outdoor unit, touch the heat exchanger radiator fins with extreme care.
- Wearing thick gloves can protect your hands.

Make sure that the condensed water dripping from the drain hose runs out properly and safely.

The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety: Young children should be supervised to ensure that they do not play with the appliance.

## CAUTION SIGNS (CONT'D)

Inspect the condition, electric connections, pipes and external case of the air conditioner regularly by a qualified service technician.

Do not open doors and windows in the room being cooled during operation unless necessary.

Do not block the air conditioner vents. If objects block the air flow, it may cause unit malfunction or poor performance.

The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.

Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.

For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

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Ensure the off-on and protection switches are properly installed.

Do not use the air conditioner if damaged. If problems occur, immediately stop operation and disconnect the plug from the power supply.

If the air conditioner will not be used for an extended period of time (for example, over several months), unplug the power from the wall.

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Call the place of purchase or a contact center if repairs are needed.

- Potential risk of fire or electric shock if disassembly or repairs are attempted by a non-qualified service technician.

# contents


VIEWING YOUR AIR CONDITIONER 10

10 **Checking the indoor unit and display**
10 Main parts
11 Control panel
12 **Checking the remote controller**
13 Remote controller display
13 Using the remote controller
13 Inserting the batteries

OPERATING BASIC FUNCTION 14

14 **Turning the air conditioner on and off**
14 **Selecting operation mode**
14 Auto
15 Cool
16 Dry
17 Fan
18 Heat (Only applicable for AP30N1A model)
19 **Adjusting the air flow direction**
19 Vertical air flow
19 Horizontal air flow

USING ADVANCED FUNCTIONS 20

20 **Using the Turbo function**
21 **Using the Long function**
22 **Setting timer**
22 On timer
23 Off timer
24 Combining On timer and Off timer
25 **Using the air conditioner with the control panel**
26 **Locking the control panel**

CLEANING AND MAINTAINING THE AIR CONDITIONER 27

27 **Cleaning the exterior**
27 **Cleaning the filter**
27 Air filter
28 **Maintaining your air conditioner**
28 Periodical checks
29 Internal protections via the unit control system
29 Storing the remote controller

APPENDIX 30

30 **Troubleshooting**
31 **Operation ranges**

# viewing your air conditioner

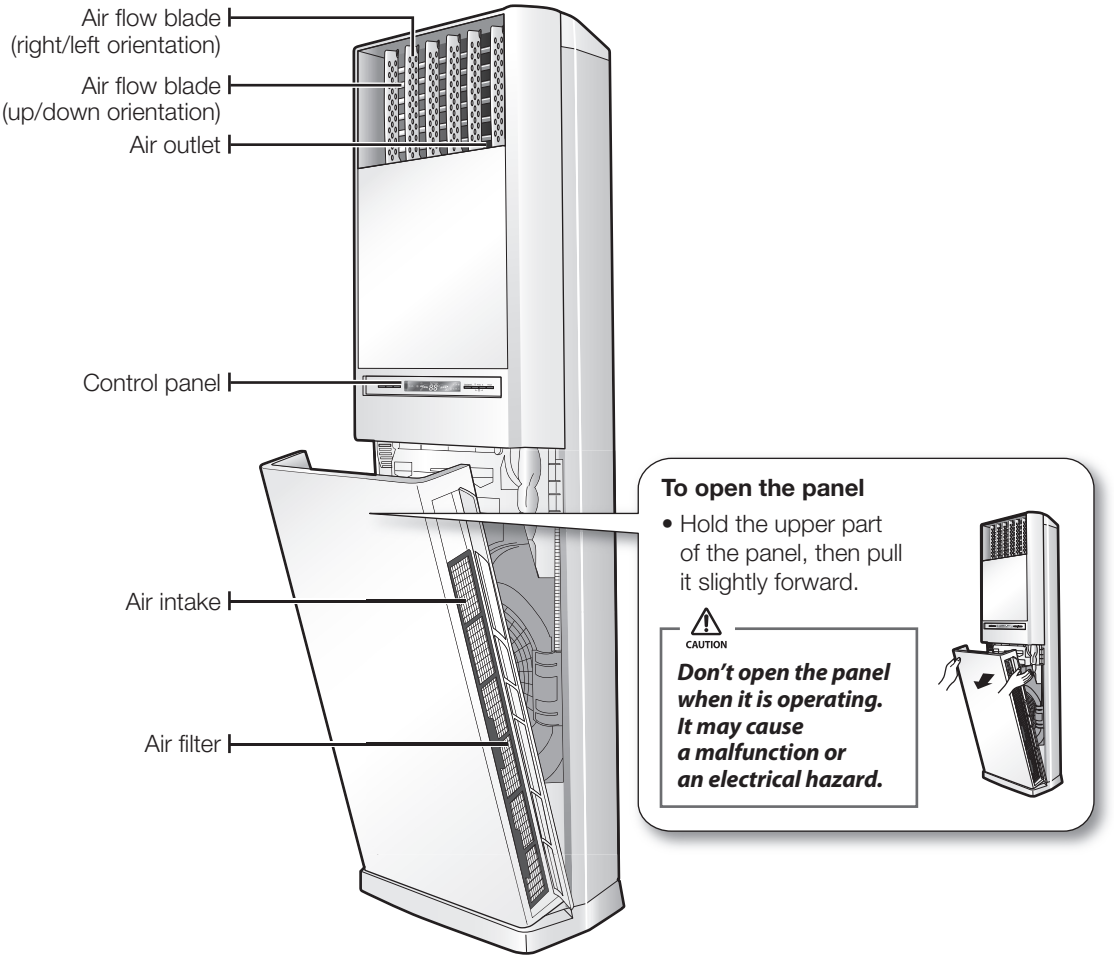
Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.

Please read the user manual to get started and to make the best use of the air conditioner.

## CHECKING THE INDOOR UNIT AND DISPLAY

Carefully unpack your air conditioner and check the indoor unit to make sure it is not damaged.

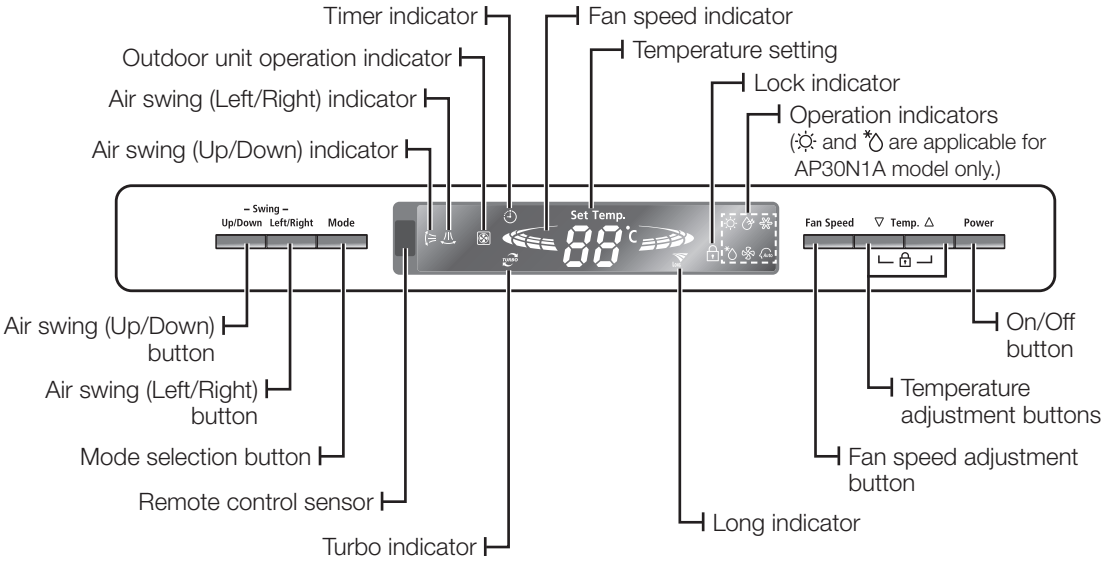
### Main parts


Air flow blade (right/left orientation)
Air flow blade (up/down orientation)
Air outlet
Control panel
Air intake
Air filter
To open the panel
• Hold the upper part of the panel, then pull it slightly forward.
CAUTION
Don't open the panel when it is operating. It may cause a malfunction or an electrical hazard.

Your air conditioner may slightly look different from illustration shown above depending on your model.

## Control Panel

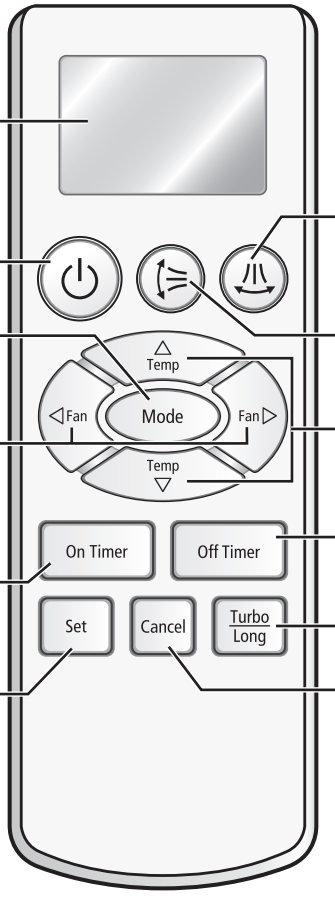
You can operate the air conditioner with the control panel when you can't or don't want to operate the air conditioner with the remote controller. (refer to page 25)



# viewing your air conditioner

## CHECKING THE REMOTE CONTROLLER

You can activate the air conditioner by pointing the remote controller away from it. When using the remote controller, always point it directly at the air conditioner.




**Remote controller display**

**Power**
Turn on/off the air conditioner.

**Mode**
Set one of the 4 or 5 operation modes (see pages 14~18 for instructions).

**Fan** ◁ ▷
Adjust how much air flows through the air conditioner with the 4 different fan speeds such as Auto/Low/Medium/High.

**On Timer**
Set the On Timer on.
Adjust the timer for on timer.

**Set**
Set the timer.

**Air swing(Left/Right)**
Activate/Deactivate air flow blade movement automatically right and left.

**Air swing(Up/Down)**
Activate/Deactivate air flow blade movement automatically up and down.

**Temp** △▽
Increase/Decrease the temperature by 1˚C.

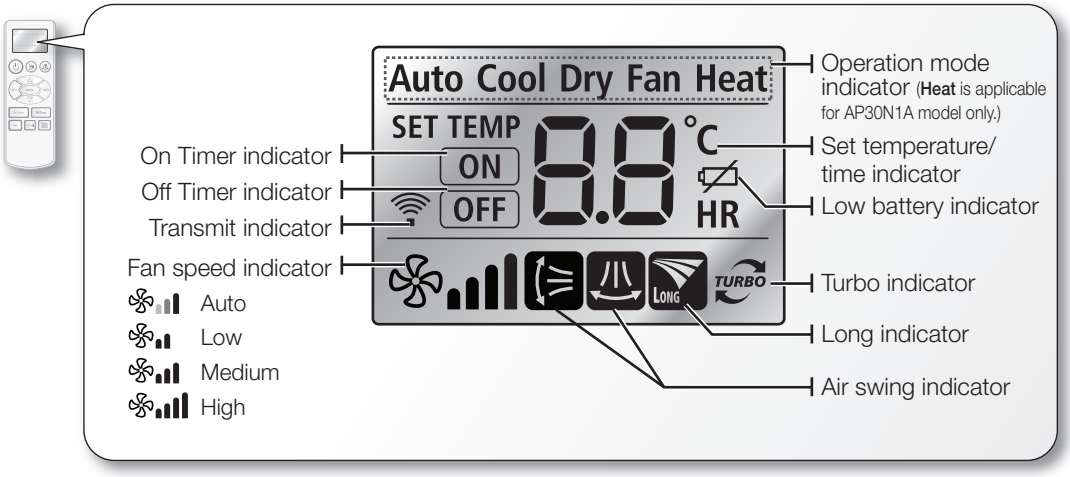
**Off Timer**
Set the Off Timer on.
Adjust the timer for off timer.

**Turbo/Long**
Set the Turbo/Long function.

**Cancel**
Cancel the timer.

When you press the button, a short ring will sound and a transmit indicator(📶) appears on the remote controller display.

## Remote controller display

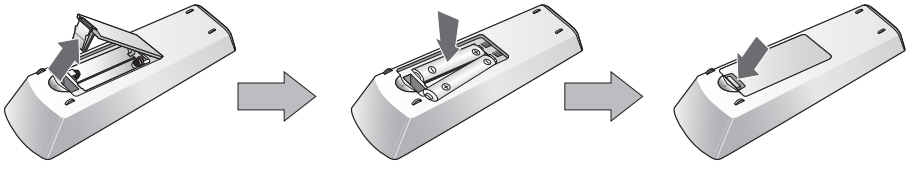



## Using the remote controller

- Point the remote controller towards the remote controller receiver of the indoor unit (see page 11 to find the location of remote control receiver).
- When you properly press the button on the remote controller, you will hear ring sound from the indoor unit.

- The signal may not be received well of electronic lighting style fluorescent lamps such as inverter fluorescent lamps are in the same space.
- If other electrical products operate by the remote controller, call your nearest contact center.

## Inserting the batteries

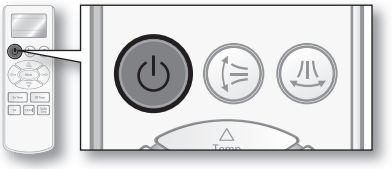


1. **Push the lever as arrow indicates on the rear side of the remote controller and pull up.**
2. **Insert two AAA batteries.**
   Check and match the "+" and "-" signs accordingly. Make sure you have inserted the batteries in correct position.
3. **Close the cover by place it back to its original position.**
   You should hear click sound when the cover is locked properly.

# operating basic function

## TURNING THE AIR CONDITIONER ON AND OFF

Press the **Power** ⏻ button on the remote controller.



You will hear a ring and the air flow blade will move automatically when the air conditioner is properly on.
The air conditioner will operate in the most recent operation mode used or Auto mode.

When you turn off the air conditioner, air flow blade will stop moving.

**Turning on/off your air conditioner without the remote controller.**
You can operate your air conditioner by pressing the **Power** ⏻ button on the indoor unit control panel.

## SELECTING OPERATION MODE

### Auto

In Auto mode, the air conditioner will automatically set the temperature and fan speed depending on the room temperature detected by the room temperature sensor.

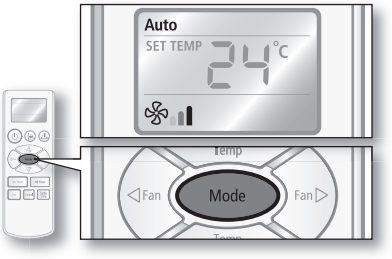
**1.** Turn on the air conditioner.

Press the **Power** ⏻ button on the remote controller.

**2.** Set the operation mode.

Press the **Mode** button on the remote controller until Auto mode and Auto fan speed indicator appear on the remote controller display.

The air conditioner will automatically set the operation mode to Cool or Heat depends on the room temperature.

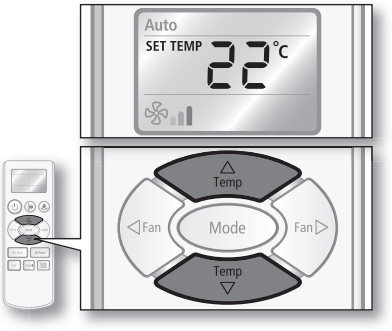



- Cooling only model(AP✳✳N0A): Each time you press the **Mode** button, the mode will change in order of Cool ➔ Auto ➔ Dry ➔ Fan.
- Heat pump model(AP✳✳N1A): Each time you press the **Mode** button, the mode will change in order of Auto ➔ Cool ➔ Dry ➔ Fan ➔ Heat.

**3.** Adjust the temperature (if you need to increase or decrease the room temperature).

Press the **Temp** △ or ▽ button on the remote controller to increase or decrease the desired temperature.

You can set the desired temperature between the range of 18℃~30℃.




You can increase/decrease the temperature by 1℃.

- While the air conditioner is already operating in another mode, press the **Mode** button until Auto mode indicator appears on the remote controller display.
- When you are using the remote controller, make sure correct indicator which matches your selection appears on the remote controller display.
- Air flow can be adjusted manually (see page 19 for instructions).

## Cool

In Cool mode, the air conditioner will cool your room. You can adjust the temperature and the fan speed to feel cooler in hot season.

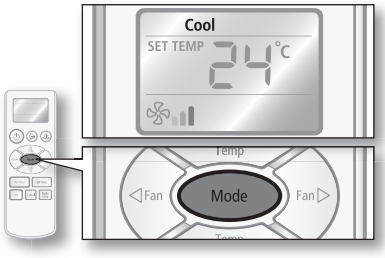
**1.** Turn on the air conditioner.

Press the **Power** ⏻ button on the remote controller.

**2.** Set the operation mode.

Press the **Mode** button on the remote controller until Cool mode indicator appears on the remote controller display.

The air conditioner operates in Cool mode and it will lower the temperature in your room.




- Cooling only model(AP✳✳N0A): Each time you press the **Mode** button, the mode will change in order of Cool ➔ Auto ➔ Dry ➔ Fan.
- Heat pump model(AP✳✳N1A): Each time you press the **Mode** button, the mode will change in order of Auto ➔ Cool ➔ Dry ➔ Fan ➔ Heat.

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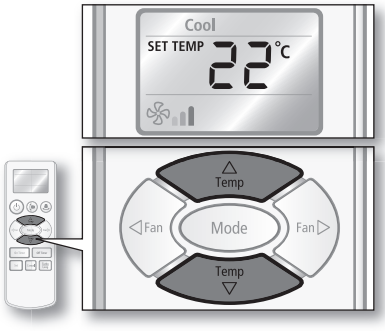
**3.** Set the temperature.

Press the **Temp** △ or ▽ button on the remote controller to increase or decrease the desired temperature.

You can set the desired temperature between the range of 18˚C~30˚C.




You can increase/decrease the temperature by 1˚C.

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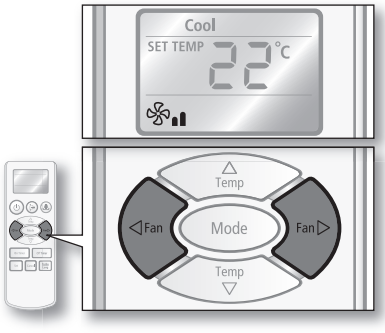
**4.** Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote controller to set the desired fan speed.

If room temperature reaches desired value, the air conditioner will shut off cooling for a while and just the fan runs.




Each time you press the **Fan** ◁ or ▷ button, fan speed will change in order of Auto, Low, Medium and High.

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- While you are using the remote controller, make sure correct indicator which matches your selection appears on the remote controller display.
- Air flow can be adjusted manually (see page 19 for instructions).
- If current outside temperatures are much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.
- If you operate the air conditioner right after stopping the cooling operation or the temperature reaches to the desired temperature, cool air will not come out around 3 minutes for compressor protection.

## SELECTING OPERATION MODE

### Dry

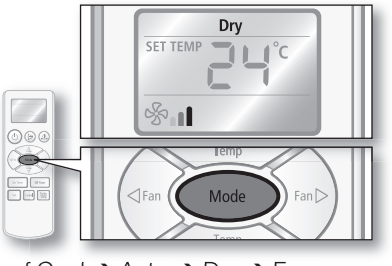
The air conditioner in Dry mode acts like a dehumidifier by removing moisture from the indoor air. Dry mode makes the air feel refreshing in a humid climate.

**1.** Turn on the air conditioner.

Press the **Power** ⏻ button on the remote controller.

**2.** Set the operation mode.

Press the **Mode** button on the remote controller until Dry mode indicator appears on the remote controller display.
The air conditioner operates in Dry mode and automatically adjust the fan speed to Auto.

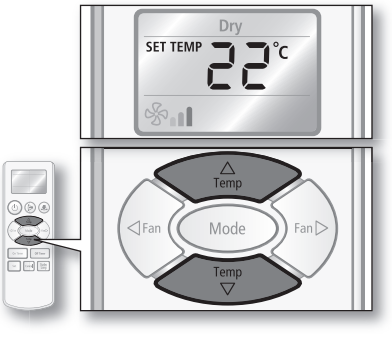



- Cooling only model(AP✳✳N0A): Each time you press the **Mode** button, the mode will change in order of Cool ➔ Auto ➔ Dry ➔ Fan.
- Heat pump model(AP✳✳N1A): Each time you press the **Mode** button, the mode will change in order of Auto ➔ Cool ➔ Dry ➔ Fan ➔ Heat.

**3.** Set the temperature.

Press the **Temp** △ or ▽ button on the remote controller to increase or decrease the desired temperature.

You can set the desired temperature between the range of 18℃~30℃.




You can increase/decrease the temperature by 1℃.

- While you are using the remote controller, make sure correct indicator which matches your selection appears on the remote controller display.
- Air flow can be adjusted manually (see page 19 for instructions).

## Fan

Fan mode can be selected to ventilate your room. Fan mode will be helpful to refresh the stale air in your room.

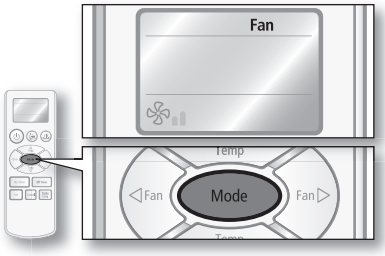
**1.** Turn on the air conditioner.

Press the **Power** ⏻ button on the remote controller.

**2.** Set the operation mode.

Press the **Mode** button on the remote controller until Fan mode indicator appears on the remote controller display.

The air conditioner operates in Fan mode and circulate the indoor air.




- Cooling only model(AP✳✳N0A): Each time you press the **Mode** button, the mode will change in order of Cool ➔ Auto ➔ Dry ➔ Fan.
- Heat pump model(AP✳✳N1A): Each time you press the **Mode** button, the mode will change in order of Auto ➔ Cool ➔ Dry ➔ Fan ➔ Heat.

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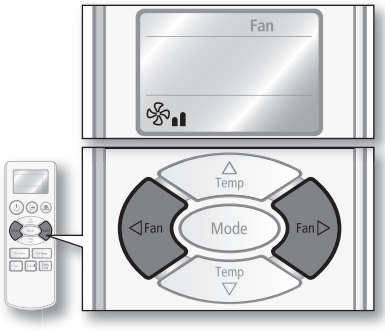
**3.** Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote controller to set the desired fan speed.




Each time you press the **Fan** ◁ or ▷ button, fan speed will change in order of Low, Medium and High.

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- While you are using the remote controller, make sure correct indicator which matches your selection appears on the remote controller display.
- Air flow can be adjusted manually (see page 19 for instructions).

## SELECTING OPERATION MODE

### Heat (Only applicable for AP30N1A model)

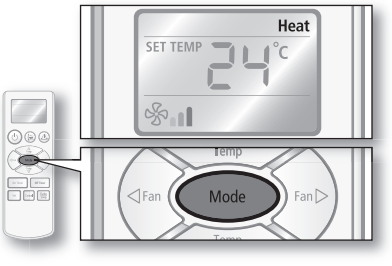
The air conditioner heats as well as cools. Warm your room with this versatile appliance in the cold of winter.

**1.** Turn on the air conditioner.

Press the **Power** ⏻ button on the remote controller.

**2.** Set the operation mode.

Press the **Mode** button on the remote controller until Heat mode indicator appears on the remote controller display.
The air conditioner operates in Heat mode and warms your room.

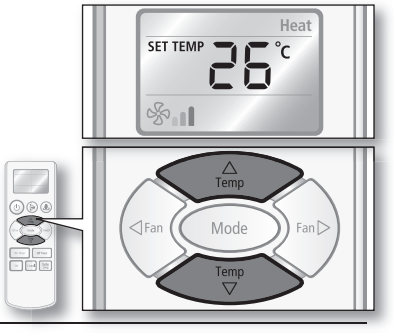



Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat*.
(*Heat mode is applicable for AP30N1A model only.)

**3.** Set the temperature.

Press the **Temp** △ or ▽ button on the remote controller to increase or decrease the desired temperature.

You can set the desired temperature between the range of 16℃~30℃.

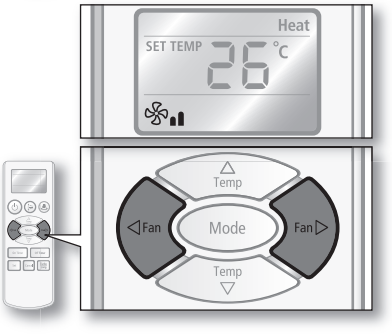



You can increase/decrease the temperature by 1℃.

**4.** Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote controller to set the desired fan speed.

If room temperature reaches desired value, heating will stop for a while.




- Each time you press the **Fan** ◁ or ▷ button, fan speed will change in order of Auto, Low, Medium and High.
- Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up.

- Air flow can be adjusted manually (see page 19 for instructions).
- Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperature is extremely low.
  Use an additional heating appliance in combination with the air conditioner if you feel the air conditioner heats insufficiently.
- Frost may form in outdoor unit during Heat mode. Defrost indicator* will light up when the outdoor unit starts removing frost and it will disappear when the operation is done.

# ADJUSTING THE AIR FLOW DIRECTION

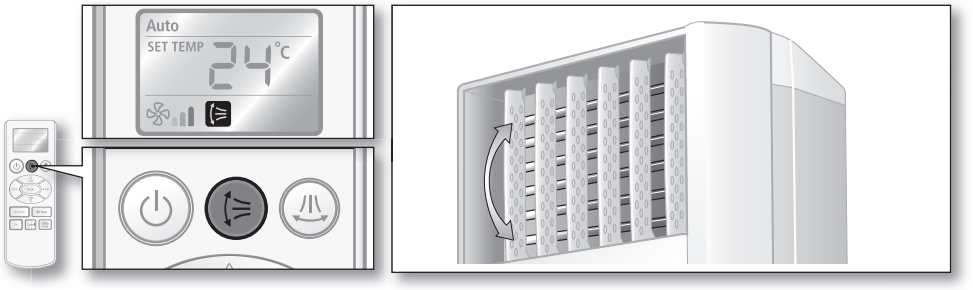
Air flow can be directed to your desired position.

## Vertical air flow

1. Press the **Air swing(Up/Down)** button on the remote controller.

   The air flow blades move up and down.

   To keep the air flow direction in a constant position, press the **Air swing(Up/Down)** button on the remote controller again.

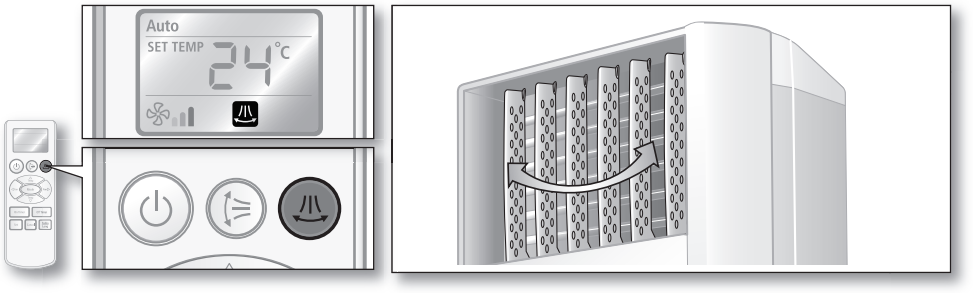



## Horizontal air flow

1. Press the **Air swing(Left/Right)** button on the remote controller.

   The air flow blades move right and left.

   To keep the air flow direction in a constant position, press the **Air swing(Left/Right)** button on the remote controller again.




When using the Long function, vertical air flow direction control is not possible.

# using advanced functions

## USING THE TURBO FUNCTION

Turbo function will be helpful to cool or heat your room quickly and effectively by operating at the maximum fan speed for 30 minutes.

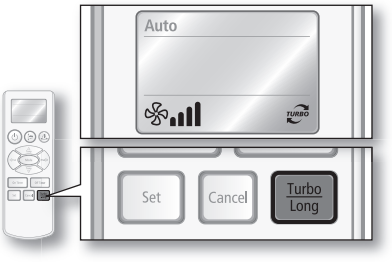
1. Turn on the air conditioner.

   Press the **Power** ⏻ button on the remote controller.

2. Set the operation mode.

   Press the **Turbo/Long** button on the remote controller once. Turbo indicator will appear on the remote controller display.

   The air conditioner operates in High fan speed and automatically adjusts the temperature according to the current room temperature. The unit operates for 30 minutes and then operates in last used mode or in Auto mode if Dry/Fan mode is most recent mode used.




- Turbo function is only available in Auto/Cool/Heat* mode. If Turbo function is selected in Dry/Fan mode, operation mode changes to Auto.
  (*Heat mode is applicable for AP30N1A model only.)
- You cannot use Turbo and Long function at the same time.

### To deactivate Turbo function

1. Press the **Turbo/Long** button on the remote controller twice while Turbo function is on.

   The air conditioner operates in last used mode or in Auto mode if Dry/Fan mode is most recent mode used.

- While you are using the remote controller, make sure corresponding indicator appears on the remote controller display.
- Temperature/Fan speed cannot be adjusted while using this function.
- Air flow can be adjusted manually (see page 19 for instructions).
- If you press the **Mode** button while the Turbo function is on, it will cancel the function.

## USING THE LONG FUNCTION

Long function will be helpful when you want the cool or warm air to go to much further place.

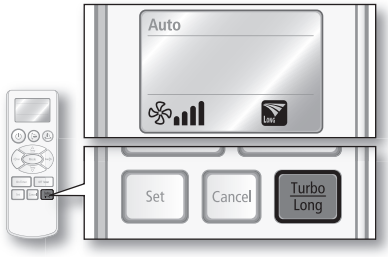
**1.** Turn on the air conditioner.

Press the **Power** ⏻ button on the remote controller.

**2.** Set the operation mode.

Press the **Turbo/Long** button on the remote controller twice. Long indicator will appear on the remote controller display.

The air conditioner operates in High fan speed and automatically adjusts the temperature according to the current room temperature. The unit operates for 30 minutes and then operates in last used mode, or in Auto mode if Dry/Fan mode is most recent mode used.




- Long function is only available in Auto/Cool/Heat* mode. If Long function is selected in Dry/Fan mode, operation mode changes to Auto.
  (*Heat mode is applicable for AP30N1A model only.)
- When using Long function, the air flow blades face upward and vertical air flow direction control is not possible.
- You cannot use Turbo and Long function at the same time.

### To deactivate Long function

**1.** Press the **Turbo/Long** button on the remote controller while Long function is on.

The air conditioner operates in last used mode, or in Auto mode if Dry/Fan mode is most recent mode used.

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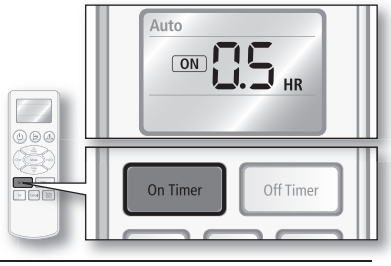
- While you are using the remote controller, make sure corresponding indicator appears on the remote controller display.
- Press **Temp** △ or ▽ button to adjust desired temperature. Each time you press the button, the temperature changes by 1°C.
- Fan speed is set as High only and cannot be adjusted in Long function.
- In Long function, air flow can be adjusted in horizontal direction only (see page 19 for instructions).

## SETTING TIMER

This advanced Timer function allows you to turn on/off your air conditioner automatically even when you are away. Simply set the time and your air conditioner will turn on/off automatically.

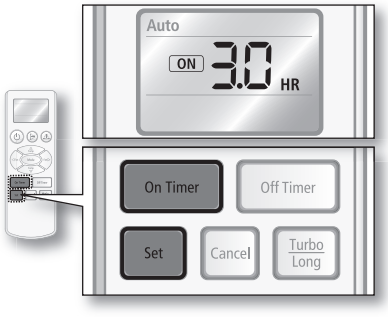
### On Timer

This function allows you to turn on the air conditioner automatically within the time range of 24 hours.
On timer is available while your air conditioner is off.




1. Press the **On Timer** button on the remote controller.

   On timer indicator blinks on the remote controller display.




2. Set the time you want the air conditioner to turn on automatically.

   Press the **On Timer** button on the remote controller to change the time setting while On timer indicator is blinking.

   You can set the time up to 24 hours, increasing in 30 minute unit up to first 3 hours and in hourly unit after first 3 hours.

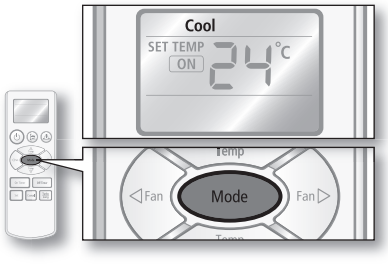
3. Press the **Set** button on the remote controller to active it on.

   The remote controller display will show the hour(s) you have set for 3 seconds and set desired temperature will display.
   The air conditioner will operate automatically at set time and then On timer indicator stops blinking and stays on. If On timer is not set within 10 seconds, the air conditioner will end setting.

4. Set the operation mode.

   Press the **Mode** button on the remote controller until the desired mode appears on the remote controller display.

   The air conditioner will operate in the mode you set.




On timer function is available in Auto/Cool/Dry/Fan/Heat* mode.(*Heat mode is applicable for AP30N1A model only.)

- Temperature can also be adjusted (see step 3 on page 14 for instructions).
- All the indicators other than On Timer indicator will disappear approximately after 10 seconds after the setup.
- When the On Timer setting is done, you can press the **On Timer** button again to change the preset time. Press the **On Timer** button to change time setting and then press the **Set** button to active it on.

### To deactivate the On Timer

1. Press the **Cancel** button on the remote controller while On Timer is on.

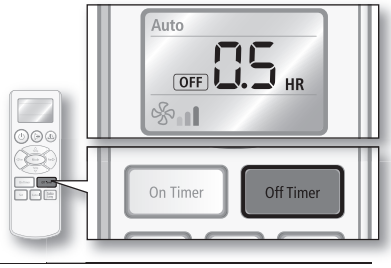
   On timer you set will be canceled and On timer indicator will disappear.

## Off Timer

This function allows you to turn off the air conditioner automatically within the time range of 24 hours. Off timer is available while your air conditioner is on.

**1.** Press the **Off Timer** button on the remote controller.

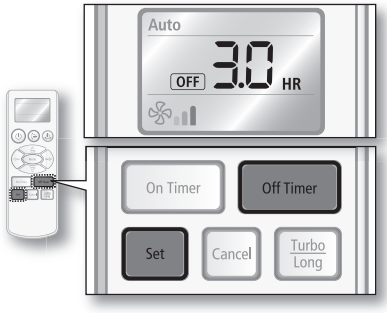
Off timer indicator blinks on the remote controller display.




**2.** Set the time you want the air conditioner to turn off automatically.

Press the **Off Timer** button on the remote controller to change the time setting while Off timer indicator is blinking.

You can set the time up to 24 hours, increasing in 30 minute unit up to first 3 hours and in hourly unit after first 3 hours.




**3.** Press the **Set** button on the remote controller to active it on.

The remote controller display will show the hour(s) you have set for 3 seconds and set desired temperature will display.
The air conditioner will operate automatically at set time and then Off timer indicator stops blinking and stays on. If Off timer is not set within 10 seconds, the air conditioner will end setting.

- When the Off Timer setting is done, you can press the **Off Timer** button again to change the preset time.
  Press the **Off Timer** button to change the time setting and then press the **Set** button to active it on.
- You can combine Off timer function with On timer function to turn on and then off the air conditioner at the desired time (see page 24 for instructions).

### To deactivate the Off Timer

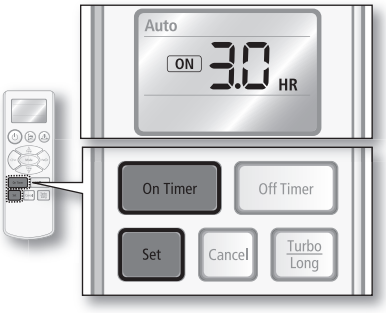
**1.** Press the **Cancel** button on the remote controller while Off Timer is on.

Off timer you set will be canceled and Off timer indicator will disappear.

## SETTING TIMER

### Combining On Timer and Off Timer

You can combine the On timer and Off timer together for more convenient use of the timer function.




**1.** Set the On timer.
Press the **On Timer** button.
Set the time with **On Timer** button.
Press **Set** button to activate the On timer.

See page 22 for more detail instructions on setting On timer.

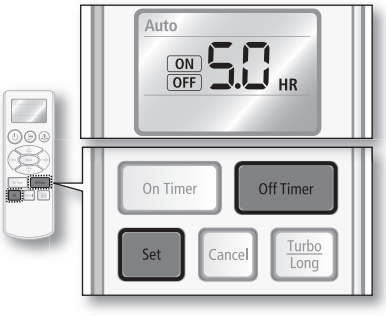
**2.** Set the Off timer.
Press the **Off Timer** button.
Set the time with **Off Timer** button.
Press **Set** button to activate the Off timer.

When you set the time, there can be two possible options:

**Preset time of On Timer is shorter than Off Timer**

The air conditioner will turn on and then off automatically. Set up should be done while the air conditioner is off.

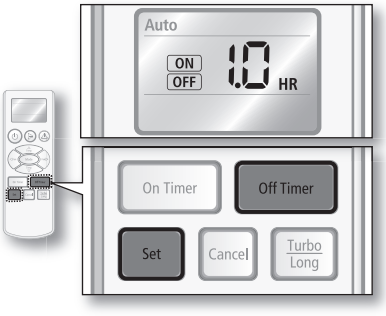
ex.) If the preset time of the On Timer is 3 hours and the Off Timer is 5 hours, the air conditioner will turn on after 3 hours from the moment you have set the timer.
Your air conditioner will remain on for 2 hours and then turn off automatically.




**Preset time of On Timer is longer than Off Timer**

The air conditioner will turn off and then on automatically. Set up should be done while the air conditioner is operating.

ex.) If the preset time of the On Timer is 3 hours and the Off Timer is 1 hour, the air conditioner will turn off an hour after the moment you have set the timer.
Your air conditioner will remain off for two hours and then it will turn on automatically.




See page 23 for more detail instructions on setting Off timer.

### To deactivate the timer combination

**1.** Press the **Cancel** button on the remote controller while timer combination is on.

Both of the On and Off timer will be canceled and the indicators will disappear.

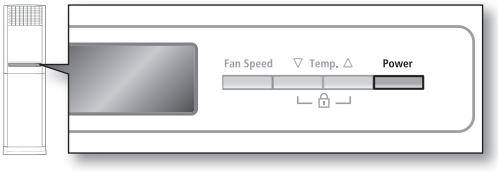
# USING THE AIR CONDITIONER WITH THE CONTROL PANEL

You can control the air conditioner without the remote controller.

**1.** Press the **Power** button on the indoor unit control panel.

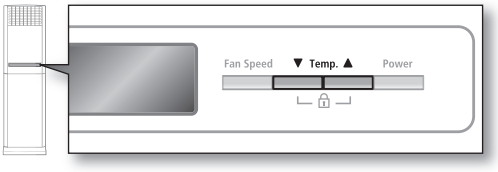
You will hear a ringing sound and the air conditioner will operate in the most recent operation mode used or Auto mode.

To turn off the air conditioner, press the **Power** button again.



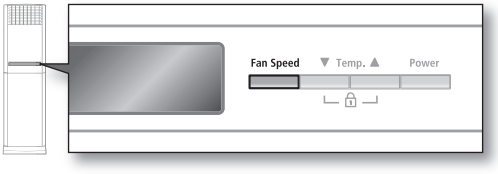

**2.** Press the **Temp** ▽ or △ button to adjust the temperature.

You can set the desired temperature between the range of 18°C~30°C in Cool mode, 16°C~30°C in Heat* mode. (*Heat mode is applicable for AP30N1A model only.)




You can increase/decrease the temperature by 1°C.

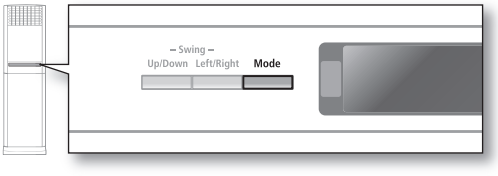
**3.** Press the **Fan Speed** button to adjust the fan speed.




Each time you press the **Fan Speed** button, the fan speed will change in order of Auto(), Low(), Medium() and High().

**4.** Press the **Mode** button to select operation mode.

You can select operation mode you want by pressing the **Mode** button.



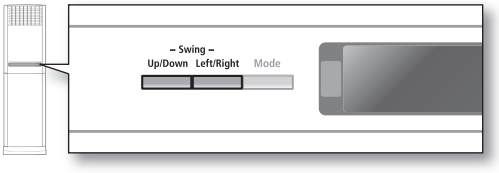

- Cooling only model(AP✳✳N0A): Each time you press the **Mode** button, the mode will change in order of Cool ➔ Auto ➔ Dry ➔ Fan.
- Heat pump model(AP✳✳N1A): Each time you press the **Mode** button, the mode will change in order of Auto ➔ Cool ➔ Dry ➔ Fan ➔ Heat.

## USING THE AIR CONDITIONER WITH THE CONTROL PANEL

**5.** Press **Swing(Up/Down)** or **Swing(Left/Right)** button to adjust air flow direction.

The air flow blades move up/down or left/right.

To keep the air flow direction in a constant position, press the **Swing(Up/Down)** or **Swing(Left/Right)** button on the control panel again.




## LOCKING THE CONTROL PANEL

You can lock the control panel on the indoor unit to prevent the children from playing with the air conditioner

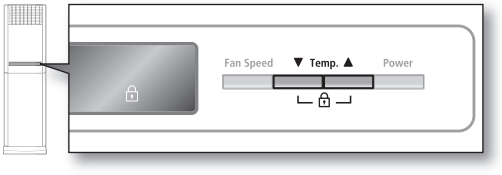
### When the air conditioner is on or off

**1.** Press the **Temp** ▽ and △ buttons for 3 seconds.

You will hear ring and the Lock indicator 🔒 will appear on the indoor unit display.

Once Lock is set, you cannot control the air conditioner with the control panel but you can only control it with the remote controller.

To Unlock the control panel, press the **Temp** ▽ and △ buttons again for 3 seconds.



# cleaning and maintaining the air conditioner

**Make sure to turn off the circuit breaker when cleaning the air conditioner.**

## CLEANING THE EXTERIOR

**1.** Wipe the surface of the unit with a slightly wet or dry cloth when needed.

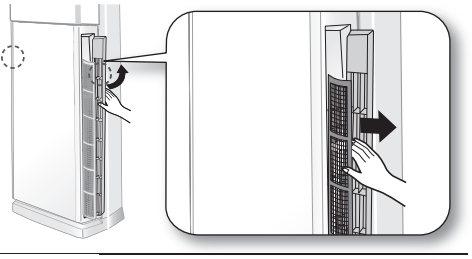
Do not use Benzene, Thinner or Clorox™.
They may damage the surface of the air conditioner and can create a risk of fire.

## CLEANING THE FILTER

### Air filter

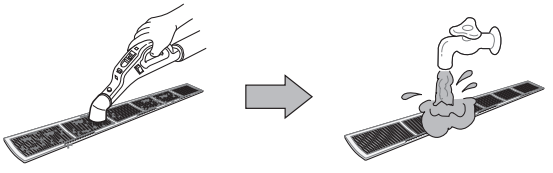
Washable air filter captures large particles from the air. The filter can be cleaned with a vacuum or by hand washing.

**1.** Open the cover of air intake and then take the Air filter out.



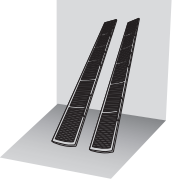
**2.** Clean the Air filter with a vacuum cleaner or soft brush.

If dust is too heavy, use detergent in warm water. Do not scrub the filter to hard since it may get damaged.



**3.** Dry the Air filter in a ventilated area.

Do not dry the Air filter in a place with direct sunlight.



**4.** Insert the Air filter back in its original position.

**5.** Close the air intake cover.

Clean the Air filter every two weeks. Cleaning term may differ on usage and environmental conditions. In dusty area, clean it once a week.

# cleaning and maintaining the air conditioner

## MAINTAINING YOUR AIR CONDITIONER

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and turn off the circuit breaker. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

### Periodical checks

Refer to the following chart to maintain the air conditioner properly.

| Type | Description | Every 2 weeks | Every 3 months | Every 4 months | Once a year |
|---|---|---|---|---|---|
| Indoor unit | Clean the air filter (1) | ● | | | |
| | Clean the condensate drain pan (2) | | | | ● |
| | Thoroughly clean the heat exchanger (2) | | | | ● |
| | Clean the condensate drain pipe (2) | | | ● | |
| | Replace the remote controller batteries (1) | | | | ● |
| Outdoor unit | Clean the heat exchanger on the outside of the unit (2) | | | ● | |
| | Clean the heat exchanger on the inside of the unit (2) | | | | ● |
| | Clean the electric components with jets of air (2) | | | | ● |
| | Verify that all the electric components are firmly tightened (2) | | | | ● |
| | Clean the fan (2) | | | | ● |
| | Verify that all the fan assembly is firmly tightened (2) | | | | ● |
| | Clean the condensate drain pan (2) | | | | ● |

● : This check mark requires checking the indoor/outdoor unit periodically, following to the description to maintain the air conditioner properly.

The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

(1) The described operations should be performed more frequently if the area of installation is very dusty.

(2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

## Internal protections via the unit control system

This internal protection operates if an internal fault occurs in the air conditioner.

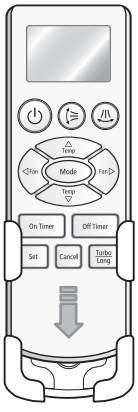
| Type | Description |
|---|---|
| **Against cold air** | The internal fan will be off to against cold air when the heat pump is heating. |
| **Defrost cycle** | The internal fan will be off to against cold air when the heat pump is heating. |
| **Protect compressor** | The air conditioner does not start operating immediately to protect the compressor of the outdoor unit after it has been started. |

If the heat pump is operating in Heat mode, defrost cycle is actuated to remove frost from an outdoor unit that may have deposited at low temperatures.

The internal fan is switched off automatically and restarted only after the defrost cycle is completed.

## Storing the remote controller

When you do not use the remote controller for a long time, remove the batteries and store the remote controller in the remote controller holder.



# appendix

## TROUBLESHOOTING

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

| PROBLEM | SOLUTION |
|---|---|
| **The air conditioner does not operate immediately after it has been restarted.** | • Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The air conditioner will start in 3 minutes. |
| **The air conditioner does not work at all.** | • Check if the circuit breaker is switched off.<br>• Check if there is a power failure.<br>• Check your fuse. Make sure it is not blown out. |
| **The temperature does not change.** | • Check if you selected Fan mode. Press the **Mode** button on the remote controller to select another mode. |
| **The cool(warm) air does not come out of the air conditioner.** | • Check if the set temperature is higher(lower) than the current temperature. Press the **Temp** ▽ or △ button on the remote controller to change the set temperature. Press the **Temp** ▽ or △ button to increase or decrease the temperature.<br>• Check if the air filter is blocked by dirt. Clean the Air filter every two weeks.<br>• If the air conditioner has just been turned on or the indoor temperature reaches the desired temperature, only fan will operate around 3 minutes for the product protection. Also, just after you start the heating operation, warm air will come out after for a while to avoid cold air from coming out. |
| **The fan speed does not change.** | • Check if you selected Auto or Dry mode. The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode. |
| **Timer function does not set.** | • Check if you press the **Set** button on the remote controller after you have set the time. |
| **Odors permeate in the room during operation.** | • Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room. |
| **The air conditioner makes a bubbling sound.** | • A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode. |
| **Water is dripping from the air flow blades.** | • Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature. |
| **Remote controller is not working.** | • Check if your batteries are depleted.<br>• Make sure batteries are correctly installed.<br>• Make sure nothing is blocking your remote control sensor.<br>• Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves. |
| **Smoke is generated from the outdoor unit.** | • It may not be a fire but it can be a steam generated by the defrost operation from outdoor heat exchanger during Heat mode in winter. |
| **Error is indicated.** | • Contact the service center when the following errors are indicated. E1-21, E1-22 E1-62, E1-63, E1-94, E2-37, E4-79 |

## OPERATION RANGES

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

| MODE | OPERATIONAL TEMPERATURE | | INDOOR HUMIDITY | IF OUT OF CONDITIONS |
|---|---|---|---|---|
| | INDOOR | OUTDOOR | | |
| COOLING | 18℃ to 32℃ | 21℃ to 54℃ | 80% or less | Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor. |
| HEATING | 27℃ or less | -5℃ to 24℃ | - | Internal protection triggers and the air conditioner will stop. |
| DRYING | 18℃ to 32℃ | 21℃ to 54℃ | - | Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor. |

The standardized temperature for heating is 7℃. If the outdoor temperature drops to 0℃ or below, the heating capacity can be reduced depending on the temperature condition.
If the cooling operation is used at over 32℃(indoor temperature), it does not cool at its full capacity.

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